

From 1oldlens1 at ix.netcom.com Mon Jul 4 21:56:37 2022
From: 1oldlens1 at ix.netcom.com (Richard Knoppow)
Date: Mon, 4 Jul 2022 14:56:37 -0700
Subject: [BoatAnchors] HQ=120-X Dial Window
Message-ID: <bb93b00b-dc34-b79c-aba7-a8b808cfac7a@ix.netcom.com>

I am looking for replacement dial windows for a Hammarlund HQ-129-X Mine are badly stained. There is some outfit that makes replacement dials, etc, that has a good reputation but I can't remember the name. Can anyone help me?

The dials are perfectly fine, just the windows. They look easy to make but I am not as good at that sort of think as I used to be.

Also, is there anyone here who really knows Hammarlund history well. I have a couple of questions about this thing.

--

Richard Knoppow
1oldlens1 at ix.netcom.com
WB6KBL

From pfthekan at gmail.com Mon Jul 4 22:26:52 2022
From: pfthekan at gmail.com (Paul Thekan)
Date: Mon, 4 Jul 2022 15:26:52 -0700
Subject: [BoatAnchors] HQ=120-X Dial Window
In-Reply-To: <bb93b00b-dc34-b79c-aba7-a8b808cfac7a@ix.netcom.com>
References: <bb93b00b-dc34-b79c-aba7-a8b808cfac7a@ix.netcom.com>
Message-ID: <CAK4LMKMMbKn8mFWfEXQD=CARcB8hd-4KDWYGjxsHJcHUymSdbA@mail.gmail.com>

Hi Richard

Maybe you were thinking of 'Radio Daze'
I did a quick check and didn't see that they had the HQ 129 dials. They said they do custom but I've tried contacting them about having new dials made for Jefferson Travis JT 350 but never hear back from them.
Hopefully some one else might have a source for you....or a donor junker set with good dials.

Paul
N6FEG

On Mon, Jul 4, 2022, 2:56 PM Richard Knoppow via BoatAnchors <boatanchors at lists.theporch.com> wrote:

> I am looking for replacement dial windows for a Hammarlund
> HQ-129-X Mine are badly stained. There is some outfit that makes
> replacement dials, etc, that has a good reputation but I can't
> remember the name. Can anyone help me?
> The dials are perfectly fine, just the windows. They look
> easy to make but I am not as good at that sort of think as I used

> to be.
> Also, is there anyone here who really knows Hammarlund
> history well. I have a couple of questions about this thing.
> --
> Richard Knoppow
> 1oldlens1 at ix.netcom.com
> WB6KBL
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>

From 1oldlens1 at ix.netcom.com Tue Jul 5 01:30:09 2022
From: 1oldlens1 at ix.netcom.com (Richard Knoppow)
Date: Mon, 4 Jul 2022 18:30:09 -0700
Subject: [BoatAnchors] HQ=120-X Dial Window
In-Reply-To: <CAK4LMKMMbKn8mFWfEXQD=CARcB8hd-4KDWYGjxsHJcHUymSdbA@mail.gmail.com>
References: <bb93b00b-dc34-b79c-aba7-a8b808cfac7a@ix.netcom.com>
<CAK4LMKMMbKn8mFWfEXQD=CARcB8hd-4KDWYGjxsHJcHUymSdbA@mail.gmail.com>
Message-ID: <b029ba44-3930-4d8b-8076-baf65923de24@ix.netcom.com>

It might have been Radio Daze I don't need the dials, only the windows. It seems to me I have gotten stuff from Radio Daze in the past but it was some time ago.

I could cut out the windows from plastic sheet from the hobby shop. Not sure how to make the very fine lines on them.

Speaking of dials, I need new ones for a HQ-120-X the dials on mine have delaminated I understand that the dials used on the later models, like the HQ-140, will fit plus have 15meters on them. I will do some searching around.

A question:

My 129-X is finished in a dark gray front panel but it looks original and the silk screening on it looks original. Does anyone know about this? Most 129s have light gray finish. If this is a rebuild its done very well. I know the earliest 129s had Hammarlund in red, this one is white. Could it be a very late one, I have no idea if there are series or serial numbers it or where to look for them.

On 7/4/2022 3:26 PM, Paul Thekan via BoatAnchors wrote:

> Hi Richard
>
> Maybe you were thinking of 'Radio Daze'
> I did a quick check and didn't see that they had the HQ 129 dials. They
> said they do custom but I've tried contacting them about having new dials
> made for Jefferson Travis JT 350 but never hear back from them.
> Hopefully some one else might have a source for you....or a donor junker

> set with good dials.
> Paul
> N6FEG
>
> On Mon, Jul 4, 2022, 2:56 PM Richard Knoppow via BoatAnchors <
> boatanchors at lists.theporch.com> wrote:
>
>> I am looking for replacement dial windows for a Hammarlund
>> HQ-129-X Mine are badly stained. There is some outfit that makes
>> replacement dials, etc, that has a good reputation but I can't
>> remember the name. Can anyone help me?
>> The dials are perfectly fine, just the windows. They look
>> easy to make but I am not as good at that sort of think as I used
>> to be.
>> Also, is there anyone here who really knows Hammarlund
>> history well. I have a couple of questions about this thing.
>> --
>> Richard Knoppow
>> 1oldlens1 at ix.netcom.com
>> WB6KBL
>> -----
>> BoatAnchors mailing list
>> BoatAnchors at lists.theporch.com
>> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>>
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>
--
Richard Knoppow
1oldlens1 at ix.netcom.com
WB6KBL

From 1oldlens1 at ix.netcom.com Tue Jul 5 01:39:53 2022
From: 1oldlens1 at ix.netcom.com (Richard Knoppow)
Date: Mon, 4 Jul 2022 18:39:53 -0700
Subject: [BoatAnchors] HQ=120-X Dial Window
In-Reply-To: <CAK4LMKMMbKn8mFWfEXQD=CARcB8hd-4KDWYGjxsHJcHUymSdbA@mail.gmail.com>
References: <bb93b00b-dc34-b79c-aba7-a8b808cfac7a@ix.netcom.com>
<CAK4LMKMMbKn8mFWfEXQD=CARcB8hd-4KDWYGjxsHJcHUymSdbA@mail.gmail.com>
Message-ID: <96ee1e3d-9cc7-7a21-463b-1847e8797951@ix.netcom.com>

Found 120 dial windows at Radio Days. I think I will try making my own. They also have dials for the 120. Not too bad. I assume one must put the old hubs on the new dials.

On 7/4/2022 3:26 PM, Paul Thekan wrote:

> Hi Richard

>

> ?Maybe you were thinking of 'Radio Daze'

> I did a quick check? and didn't see that they had the HQ 129

> dials. They said they do custom but I've tried contacting them

> about having new dials made for? Jefferson Travis JT 350 but

> never hear back from them.

> ?Hopefully? some one else might have a source for you....or a

> donor junker set with good dials.

> Paul

> N6FEG

>

> On Mon, Jul 4, 2022, 2:56 PM Richard Knoppow via BoatAnchors

> <boatanchors at lists.theporch.com

> <mailto:boatanchors at lists.theporch.com>> wrote:

>

> ? ? I am looking for replacement dial windows for a Hammarlund

> HQ-129-X? Mine are badly stained. There is some outfit that

> makes

> replacement dials, etc, that has a good reputation but I can't

> remember the name. Can anyone help me?

> ? ? ?The dials are perfectly fine, just the windows. They look

> easy to make but I am not as good at that sort of think as I

> used

> to be.

> ? ? Also, is there anyone here who really knows Hammarlund

> history well. I have a couple of questions about this thing.

>

> --
> Richard Knoppow

> 1oldlens1 at ix.netcom.com <mailto:1oldlens1 at ix.netcom.com>

> WB6KBL

>

> -----
> BoatAnchors mailing list

> BoatAnchors at lists.theporch.com

> <mailto:BoatAnchors at lists.theporch.com>

> <https://lists.theporch.com/mailman/listinfo/boatanchors>

> <<https://lists.theporch.com/mailman/listinfo/boatanchors>>

>

--

Richard Knoppow

1oldlens1 at ix.netcom.com

WB6KBL

From pfthekan at gmail.com Tue Jul 5 01:57:32 2022

From: pfthekan at gmail.com (Paul Thekan)

Date: Mon, 4 Jul 2022 18:57:32 -0700

Subject: [BoatAnchors] HQ=120-X Dial Window
In-Reply-To: <96ee1e3d-9cc7-7a21-463b-1847e8797951@ix.netcom.com>
References: <bb93b00b-dc34-b79c-aba7-a8b808cfac7a@ix.netcom.com>
<CAK4LMKMMbKn8mFWfEXQD=CARcB8hd-4KDWYGjxsHJcHUymSdbA@mail.gmail.com>
<96ee1e3d-9cc7-7a21-463b-1847e8797951@ix.netcom.com>
Message-ID: <CAK4LMK0hn+qGpumXvh2rEF5NpTxYCt_xa_RR0q_uUpV6SrLe9pw@mail.gmail.com>

Richard...my apologies..I've been so focused on dial problems here I just zeroed in on 'dial' in your post.

I can tell you though they carry new dial replacements for the HQ 120 and dial windows I think for the HQ 140....but check them out and hopefully they can help you.

I think they even have newly made front panels for the early and later production HQ 129.

Again sorry for the confusion on my part.

Paul

NFEG

On Mon, Jul 4, 2022, 6:39 PM Richard Knoppow <1oldlens1 at ix.netcom.com> wrote:

> Found 120 dial windows at Radio Days. I think I will try
> making my own. They also have dials for the 120. Not too bad. I
> assume one must put the old hubs on the new dials.

>

> On 7/4/2022 3:26 PM, Paul Thekan wrote:

> > Hi Richard

> >

> > Maybe you were thinking of 'Radio Daze'

> > I did a quick check and didn't see that they had the HQ 129

> > dials. They said they do custom but I've tried contacting them

> > about having new dials made for Jefferson Travis JT 350 but

> > never hear back from them.

> > Hopefully some one else might have a source for you....or a

> > donor junker set with good dials.

> > Paul

> > N6FEG

> >

> > On Mon, Jul 4, 2022, 2:56 PM Richard Knoppow via BoatAnchors

> > <boatanchors at lists.theporch.com>

> > <mailto:boatanchors at lists.theporch.com>> wrote:

> >

> > I am looking for replacement dial windows for a Hammarlund

> > HQ-129-X Mine are badly stained. There is some outfit that

> > makes

> > replacement dials, etc, that has a good reputation but I can't

> > remember the name. Can anyone help me?
> > The dials are perfectly fine, just the windows. They look
> > easy to make but I am not as good at that sort of think as I
> > used
> > to be.
> > Also, is there anyone here who really knows Hammarlund
> > history well. I have a couple of questions about this thing.
> > --
> > Richard Knoppow
> > 1oldlens1 at ix.netcom.com <mailto:1oldlens1 at ix.netcom.com>
> > WB6KBL
> > -----
> > BoatAnchors mailing list
> > BoatAnchors at lists.theporch.com
> > <mailto:BoatAnchors at lists.theporch.com>
> > <https://lists.theporch.com/mailman/listinfo/boatanchors>
> > <<https://lists.theporch.com/mailman/listinfo/boatanchors>>
> >
>
> --
> Richard Knoppow
> 1oldlens1 at ix.netcom.com
> WB6KBL
>

From knjhanlon at msn.com Tue Jul 5 16:07:42 2022
From: knjhanlon at msn.com (JAMES HANLON)
Date: Tue, 5 Jul 2022 16:07:42 +0000
Subject: [BoatAnchors] HQ=120-X Dial Window
Message-ID:
<SJ0PR17MB58287EBA4D9F6FB51CAF743DA0819@SJ0PR17MB5828.namprd17.prod.outlook.com>

Richard,

You asked:

A question:

My 129-X is finished in a dark gray front panel but it looks original and the silk screening on it looks original. Does anyone know about this? Most 129s have light gray finish. If this is a rebuild its done very well. I know the earliest 129s had Hammarlund in red, this one is white. Could it be a very late one, I have no idea if there are series or serial numbers it or where to look for them.

I've run a number of HQ-129's across my bench over the years, and they do tend to have different paint jobs. I presently have one of the early ones with the Red Hammarlund marking on the panel on the air. I do think that your dark grey/white labeling is probably one of the later versions. The 129 is one of my favorites

because my radio club at Saint Xavier High School in Cincinnati acquired one around 1953.

I also have a 120. It had an interesting problem when I got it. The dial disks had shrunk just a little and they no longer were a tight fit into the pinch-drive wheels on the tuning shafts. I cut some slightly larger disks from clear plastic that did mate with the pinch-drive wheels and mounted them behind the existing 120 disks. If I'd known about the Radio Daze replacements I would have had an easier job.

Enjoy your receivers. They were certainly among the better mid-priced sets of their day, and they still work amazingly well, especially on CW and AM.

73,

Jim W8KGI

From 1oldlens1 at ix.netcom.com Tue Jul 5 16:18:04 2022

From: 1oldlens1 at ix.netcom.com (Richard Knoppow)

Date: Tue, 5 Jul 2022 09:18:04 -0700

Subject: [BoatAnchors] HQ=120-X Dial Window

In-Reply-To:

<SJ0PR17MB58287EBA4D9F6FB51CAF743DA0819@SJ0PR17MB5828.namprd17.prod.outlook.com>

References:

<SJ0PR17MB58287EBA4D9F6FB51CAF743DA0819@SJ0PR17MB5828.namprd17.prod.outlook.com>

Message-ID: <99d85ad4-d605-80cb-0628-f210b982cf3e@ix.netcom.com>

Thank you so much. Any information is welcome. The HQ-120 was bought supposedly rebuilt but has the dial problem. Its obviously been recapped. The 129 works fine except for one problem and I think I know the cure for that. They are interesting receivers. One thing that puzzles me is that the dials are inside out, i.e. the lowest frequencies are on the outside and highest on the inside. This is backward of most other receivers and, of course, makes the crowding of the high frequencies worse. They certainly knew better because the dials on of the Super-Pro are the right way.

When I check my repair I will post something here.

On 7/5/2022 9:07 AM, JAMES HANLON via BoatAnchors wrote:

> Richard,

>

> You asked:

> A question:

> My 129-X is finished in a dark gray front panel but it looks
> original and the silk screening on it looks original. Does anyone
> know about this? Most 129s have light gray finish. If this is a
> rebuild its done very well. I know the earliest 129s had
> Hammarlund in red, this one is white. Could it be a very late

> one, I have no idea if there are series or serial numbers it or
> where to look for them.
>
> I've run a number of HQ-129's across my bench over the years, and they do tend
to have different paint jobs. I presently have one of the early ones with the Red
Hammarlund marking on the panel on the air. I do think that your dark grey/white
labeling is probably one of the later versions. The 129 is one of my favorites
because my radio club at Saint Xavier High School in Cincinnati acquired one
around 1953.
>
> I also have a 120. It had an interesting problem when I got it. The dial disks
had shrunk just a little and they no longer were a tight fit into the pinch-drive
wheels on the tuning shafts. I cut some slightly larger disks from clear plastic
that did mate with the pinch-drive wheels and mounted them behind the existing 120
disks. If I'd known about the Radio Daze replacements I would have had an easier
job.
>
> Enjoy your receivers. They were certainly among the better mid-priced sets of
their day, and they still work amazingly well, especially on CW and AM.
>
> 73,
>
> Jim W8KGI
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

--
Richard Knoppow
1oldlens1 at ix.netcom.com
WB6KBL

From gerboid at att.net Thu Jul 7 17:05:14 2022
From: gerboid at att.net (Larry)
Date: Thu, 7 Jul 2022 13:05:14 -0400
Subject: [BoatAnchors] Wanted: T/R relay for Kenwood T599
References: <cb776529-ad47-6054-d643-052fd7dfd4e2.ref@att.net>
Message-ID: <cb776529-ad47-6054-d643-052fd7dfd4e2@att.net>

Looking for the T/R relay for the Kenwood T599A transmitter. Its made by
Omron, 4PDT, p/n on the side says MH4P.? I found it listed on the Kensi
Electronics website, but he said that he has long since run out of them.
Thanks.....Larry WA1LGQ

From arc5 at ix.netcom.com Sun Jul 10 17:33:02 2022
From: arc5 at ix.netcom.com (David Stinson)

Date: Sun, 10 Jul 2022 12:33:02 -0500
Subject: [BoatAnchors] OT: Sony Watchman Mini-TV
Message-ID: <16c561dd-4fef-c84a-19e7-68f2cb7fb3c1@ix.netcom.com>

Does anyone here collect the early, tiny black-and-white
Sony "Watchman" TV sets? If so, please
email me privately. Thanks.

--

This email has been checked for viruses by Avast antivirus software.
<https://www.avast.com/antivirus>

From kd5byb at kd5byb.net Thu Jul 14 22:50:54 2022
From: kd5byb at kd5byb.net (Ben Hall)
Date: Thu, 14 Jul 2022 17:50:54 -0500
Subject: [BoatAnchors] Scott SLR-M Repairs Completed
In-Reply-To: <16c561dd-4fef-c84a-19e7-68f2cb7fb3c1@ix.netcom.com>
References: <16c561dd-4fef-c84a-19e7-68f2cb7fb3c1@ix.netcom.com>
Message-ID: <99c67153-be08-6a47-7c72-59cdc74ac3fb@kd5byb.net>

Good evening all,

Many responded to my Hammarlund Super-Pro posts lately. I order to get that radio
on the bench, I needed to finish up my Scott SLR-M.

The Scott SLR-M is an interesting radio. Stealing some text from <<https://people.ohio.edu/posttr/bapix/SLRM.htm>> to save me some typing...

"The Scott is a fine example of radios built to Low Radiation standards. During
World War II, fears of submarines being able to home in on radio signals emitted
by a receiver's local oscillator and I.F. resulted in well-shielded receivers
built with RF amplifiers to further isolate the oscillator and mixer from the
antenna. The RF amp tube is in a separately-shielded compartment (visible on the
right-center side of the chassis next to the IF transformers on the right).
Another more real concern was to avoid interference with sensitive on-board
direction-finding equipment. The SLRM was used both by the Navy as the REE
receiver and later aboard civilian craft."

It uses all octal tubes suggesting a that WWII-era design state above is accurate,
but it has plastic-insulated wiring and electrolytic filter caps that remind me of
those used in R-390A's. Perhaps this unit was one of the last that came off the
assembly line? Build quality is quite nice, the shielding is extremely well-done,
and the wiring is mostly neat and clean. They even left some extra length to
facilitate replacing components by just cutting them out, then making a new, clean
strip of the wire. Thanks much to the folks that did that. :)

This radio didn't take much to get it going:

* Power Isolation Transformer. There's some discussion on the various tube discussion places if a properly-grounded (three-prong) set needs an isolation transformer. The manual carefully describes how power should be hooked up, specifying the terminal that should be neutral. When I replaced the power cord and AC inlet (with a circular, locking, grounded plug) I followed these directions. HOWEVER, I decided to still use the isolation transformer just to be safe. The use of the isolation transformer actually bit me in the butt later on.

* AC Cord and Power Inlet. Original cord and inlet was two-wire, replaced with three wire as described above.

* New PHONES jack insulator. In this radio, the chassis is NOT ground, so the return of the PHONES jack needs to be isolated from the case. The original was crumbling away. I didn't have anything in my parts bins that would work, so I quickly designed and 3D-printed one out of PET-G plastic. Looks and works nice.

* Audio Gain Pot. The original pot was no good, so I replaced it. This is a special pot, not because it's 250k ohms audio taper, but because they want the metal case to be isolated from the chassis (tied to the non-chassis ground bus). When I did the replacement, I had to modify a stock pot by removing the metal ears that grounded the back metal case to the chassis, and putting it back in place with epoxy. HOWEVER, it needs redone, when the audio pot is at ZERO, it shorts the wiper to ground. I just got in some 250K audio taper pots from Mouser yesterday and have started the modification.

* Bathtub Electrolytics. Both of them were bad. Restuffed the cans with modern electro's. Interestingly, the main filter caps all test *great*. My ESR meter says that these filter caps have lower ESR than many modern caps of similar value I've got in my parts bins.

* Capacitors. All of the oil-filled bathtub caps tested good. None are physically leaking oil, so that's good. I did replace the line to ground caps with proper Y-rated "safety" caps.

* Resistors. Several resistors in and around the audio output circuits were found to have drifted over 30% high. They were replaced. This receiver uses turret-board construction, so component replacement, as long as access isn't blocked, is excellent.

* Audio Output Tube Bias Voltage. The bias voltage in this set is interesting. The dial lamp is part of the bias circuit. For several days, I chased my tail thinking that the grid voltage on the 25L6 output tubes should be something like -15 volts below cathode potential...and that the 100 watt power draw I saw on my power meter was excessive. (manual says 78 watts IIRC?)

I changed out dial lamps for different lower-current versions, checked and re-checked resistors in the divider, etc..., only to conclude that the -7.5 volts I

was fine, and that's what shown in many tube manuals. This is how I found out that my new audio gain pot grounded out the bias, as I bumped it to zero with a meter on one of the audio output grids.

Here's where the isolation transformer bit me - I kept looking for excessive power draw, as the set was drawing 100 watts instead of the IIRC 78 watts per the manual, even on a variac at 115 VAC input. Yours truly, in his infinite stupidity, had the power meter AFTER the variac (yay!) but BEFORE the isolation transformer (boo!). When I moved the power meter to between the radio and the isolation transformer, all was well. Of course, my dumb rear forgot that isolation transformers are, well, duh, transformers, and are not perfectly efficient things. (duh!)

* Mechanical Repairs. This set had several broken fasteners. They were brass and had failed. Replacing them was a bit of a chore, as I had to remove the old broken fastener while inserting the new fastener as I didn't want to take the whole thing apart to realign the parts. I used stainless steel replacements. Also, the pots / switches used in this unit don't mount to the front panel, they mount behind it, so that new Audio Gain Pot came with too short of a shaft so I had to make my own "shaft coupler" out of some junk box shaft collars. Doesn't look *too* bad. ;)

Stuff Yet To Do:

While the set seems plenty sensitive doing the band-cruise / WWV tests with my crappy vertical antenna, there are some things left on the to-do list. Or maybe, as you'll see, it's a To Be Ignored list, ha ha ha.

* Eye Tube. The 1629 eye tube is weak. It's barely visible with the lights on, but I can see it. It works fine. It's probably good enough as-is, but I did look at NOS and used units, and they are a little spendy. I'm tinkering around with the idea of a solid-state (gasp!) replacement ala this design:

<<http://electronbunker.ca/eb/6U5.html>>

HOWEVER, the SLR-M being an AC/DC set has no filament transformer, so powering the electronics in a solid-state replacement may be a bit dicey. I did lay out a PCB with SMD LEDS that I can drive with an Arduino, so I may play around with it some. Or I may just leave it. We'll see.

* Alignment. The alignment seems okay. Dial accuracy is, well, about what I'd expect for a morale receiver. This set uses ceramic variable caps that are prone to failing, and none are failed, and I suspect I might make some fail during an alignment. If it's working...why fix it?

* BFO Injection. As others have noted in other posts, it's low. Like really low. I may attempt to address this, or I may not. This won't be a good CW rig and won't be a good SSB rig, so I might just leave it alone.

* Dial "Glass". The dial "glass" on this set is plastic, has the band numbers engraved / paint filled on it, and has shrunk about 10% so that the plastic doesn't go across the whole window. I'm toying with laying a new one out in some CAD program and sending it to a place that does plastic laser cutter / engraving. Or I might leave it. You really have to look to see that it doesn't go across the whole window. ;)

* Dial Lamp. The dial lamp, being part of the negative bias voltage scheme, isn't all that bright. It's probably fine for a dark room. That said, I've recently worked on a couple of silly-state Soviet-era receivers that had woefully inadequate dial lighting, where I replaced the filament lamps with LED's quite nicely. Would be nice to have some more illumination on the dial, but since the dial lamp is part of the negative bias scheme, this would take some work I think.

Bottom line, this is an interesting, nice looking radio.

thanks much and 73,
ben, kd5byb

From arc5 at ix.netcom.com Thu Jul 14 23:50:27 2022
From: arc5 at ix.netcom.com (David Stinson)
Date: Thu, 14 Jul 2022 18:50:27 -0500
Subject: [BoatAnchors] Scott SLR-M Repairs Completed
In-Reply-To: <99c67153-be08-6a47-7c72-59cdc74ac3fb@kd5byb.net>
References: <16c561dd-4fef-c84a-19e7-68f2cb7fb3c1@ix.netcom.com>
<99c67153-be08-6a47-7c72-59cdc74ac3fb@kd5byb.net>
Message-ID: <5bb8fe85-02ad-cd39-b1ed-2df00381043e@ix.netcom.com>

On 7/14/2022 5:50 PM, Ben Hall via BoatAnchors wrote:
> I needed to finish up my Scott SLR-M.

Thank you for posting this, Ben. Enjoyed reading of your adventures. I use mine as a "morale receiver" for my shop at the train yard.

Like you, I didn't find any of the .1 uFd bypass caps bad when I revived it. However, I was listening on band 3 the other day and it started to distort and fade. Same thing was happening on Band 4, which have now gone silent before the 1st IF, but Bands 1 and 2 are still fine. Since there don't seem to be any commonalities between 3 and 4, not connected to 1 and 2, the most likely suspect is leakage in the .1 bypass caps in the local

oscillator, which would kill the higher freqs before the lower. I haven't opened it up yet to check but I'd bet coffee and donuts on it.

Mine came with ham "improvements" that grounded the phone jacks and etc., which hosed-up the filaments and bias as you noted. Without the proper dial lamp bulb, it no workie.

Glad there's another "fan" out there. It's definitely a "keeper."

Thanks again for the post!

GL OM ES 73 DE Dave AB5S

If you do decide to up the BFO injection it's just one loose-coupled wire from the BFO to the IF.

--

This email has been checked for viruses by Avast antivirus software.
<https://www.avast.com/antivirus>

From kd5byb at kd5byb.net Sat Jul 16 18:28:57 2022
From: kd5byb at kd5byb.net (Ben Hall)
Date: Sat, 16 Jul 2022 13:28:57 -0500
Subject: [BoatAnchors] Scott SLR-M Repairs Completed
In-Reply-To: <5bb8fe85-02ad-cd39-b1ed-2df00381043e@ix.netcom.com>
References: <16c561dd-4fef-c84a-19e7-68f2cb7fb3c1@ix.netcom.com>
<99c67153-be08-6a47-7c72-59cdc74ac3fb@kd5byb.net>
<5bb8fe85-02ad-cd39-b1ed-2df00381043e@ix.netcom.com>
Message-ID: <f799144d-b7fc-c557-0408-4bb32e2ecb83@kd5byb.net>

Hi Dave and all!

On 7/14/2022 6:50 PM, David Stinson wrote:
> Thank you for posting this, Ben.? Enjoyed reading
> of your adventures.? I use mine as a "morale
> ?receiver" for my shop at the train yard.

You're welcome. I'll bet it works great as a shop morale receiver.

> However, I was listening on band 3

> the other day and it started to distort and fade.
> Same thing was happening on Band 4, which have
> now gone silent before the 1st IF, but Bands 1
> and 2 are still fine.? Since there don't seem
> to be any commonalities between 3 and 4, not
> connected to 1 and 2, the most likely suspect
> is leakage in the .1 bypass caps in the local
> oscillator, which would kill the higher freqs
> before the lower.? I haven't opened it up yet to
> check but I'd bet coffee and donuts on it.

This sounds like a plausible theory to me. Let me know when you get it open if this is indeed the case. This might prompt me to change out the same caps in my unit as a preventative measure.

> Mine came with ham "improvements" that grounded
> the phone jacks and etc., which hosed-up
> the filaments and bias as you noted.

Yikes! That would certainly mess things up.

> Without
> the proper dial lamp bulb, it no workie.

Very true. I tried firing up mine once with a meter looking at the negative bias supply and once it hit something like -70 volts I killed the power. The use of the dial lamp as component in that negative supply makes me scratch my head. It is a component that, at some point, will fail...causing the high negative bias voltage. Will that cause any issues to any of the tubes? I don't think so, but I've not given it a lot of thoughts. It might take a long time for that dial lamp to fail, given that they are running it well below it's max ratings, but it still will fail.

I had some thoughts about removing the dial lamp from the bias supply and replacing it with a zener or something. I've not done the math, but seems like a 5W zener would be fine. However, the question then becomes: what do I use as a filament lamp voltage supply?

> Glad there's another "fan" out there.
> It's definitely a "keeper."

Absolutely it's a keeper. :)

thanks much and 73,
ben, kd5byb

From vilgotch1 at gmail.com Sun Jul 17 03:47:19 2022
From: vilgotch1 at gmail.com (vilgotch1 at gmail.com)

Date: Sun, 17 Jul 2022 13:47:19 +1000
Subject: [BoatAnchors] Scott SLR-M Repairs Completed
In-Reply-To: <f799144d-b7fc-c557-0408-4bb32e2ecb83@kd5byb.net>
References: <16c561dd-4fef-c84a-19e7-68f2cb7fb3c1@ix.netcom.com>
<99c67153-be08-6a47-7c72-59cdc74ac3fb@kd5byb.net>
<5bb8fe85-02ad-cd39-b1ed-2df00381043e@ix.netcom.com>
<f799144d-b7fc-c557-0408-4bb32e2ecb83@kd5byb.net>
Message-ID: <000d01d8998f\$ec02a900\$c407fb00\$@gmail.com>

Hi Ben and the gang,

I don't know this receiver as AC/DC sets are very rare down here. However can I suggest that if you're concerned about what happens if the dial lamp burns out, you could parallel it with a Zener having a rating just a volt or two above the lamp voltage. That way it would have no effect if the lamp is intact but would keep the bias voltage down if the lamp opens.

73, Morris

> Very true. I tried firing up mine once with a meter looking at the negative bias supply and once it hit something like -70 volts I killed the power. The use of the dial lamp as
> component in that negative supply makes me scratch my head. It is a component that, at some point, will fail...causing the high negative bias voltage. Will that cause any issues to
> any of the tubes? I don't think so, but I've not given it a lot of thoughts. It might take a long time for that dial lamp to fail, given that they are running it well below it's max ratings, > but it still will fail.

> I had some thoughts about removing the dial lamp from the bias supply and replacing it with a zener or something. I've not done the math, but seems like a 5W zener would be
> fine. However, the question then becomes: what do I use as a filament lamp voltage supply?

From kd5byb at kd5byb.net Sun Jul 17 12:27:10 2022
From: kd5byb at kd5byb.net (Ben Hall)
Date: Sun, 17 Jul 2022 07:27:10 -0500
Subject: [BoatAnchors] Scott SLR-M Repairs Completed
In-Reply-To: <000d01d8998f\$ec02a900\$c407fb00\$@gmail.com>
References: <16c561dd-4fef-c84a-19e7-68f2cb7fb3c1@ix.netcom.com>
<99c67153-be08-6a47-7c72-59cdc74ac3fb@kd5byb.net>
<5bb8fe85-02ad-cd39-b1ed-2df00381043e@ix.netcom.com>
<f799144d-b7fc-c557-0408-4bb32e2ecb83@kd5byb.net>
<000d01d8998f\$ec02a900\$c407fb00\$@gmail.com>

Message-ID: <efe36b16-29e9-a113-85e6-c68d3166b85c@kd5byb.net>

Hi Morris and all,

On 7/16/2022 10:47 PM, vilgotch1 at gmail.com wrote:

> I don't know this receiver as AC/DC sets are very rare down here.
> However can I suggest that if you're concerned about what happens if
> the dial lamp burns out, you could parallel it with a Zener having a
> rating just a volt or two above the lamp voltage. That way it would
> have no effect if the lamp is intact but would keep the bias voltage
> down if the lamp opens.

This is a great idea. I'm even thinking about going one step further: remove the filament lamp, replace with an LED (and a few other components to use the LED on AC), and use a zener as the regulating element. Addresses the filament burn-out issue as well as should provide additional dial illumination. On this set, the filament bulb is rather dim. (kind of like me! hahaha)

thanks much and 73,
ben, kd5byb

From kd5byb at gmail.com Sun Jul 17 13:28:02 2022
From: kd5byb at gmail.com (Ben Hall)
Date: Sun, 17 Jul 2022 08:28:02 -0500
Subject: [BoatAnchors] Scott SLR-M Repairs Completed
In-Reply-To: <efe36b16-29e9-a113-85e6-c68d3166b85c@kd5byb.net>
References: <16c561dd-4fef-c84a-19e7-68f2cb7fb3c1@ix.netcom.com>
<99c67153-be08-6a47-7c72-59cdc74ac3fb@kd5byb.net>
<5bb8fe85-02ad-cd39-b1ed-2df00381043e@ix.netcom.com>
<f799144d-b7fc-c557-0408-4bb32e2ecb83@kd5byb.net>
<000d01d8998f\$ec02a900\$c407fb00\$@gmail.com>
<efe36b16-29e9-a113-85e6-c68d3166b85c@kd5byb.net>
Message-ID: <ca3573d4-3be0-1ce1-a8d9-08401ee2f4c2@gmail.com>

On 7/17/2022 7:27 AM, Ben Hall via BoatAnchors wrote:

> This is a great idea. I'm even thinking about going one step
> further: remove the filament lamp, replace with an LED (and a few
> other components to use the LED on AC), and use a zener as the
> regulating element.

I shouldn't write posts without finishing my coffee first.

CORRECTION: Since the filament bulb is fed with DC, I don't need AC components in the dial lamp LED circuit.

thanks much and 73,
ben,

From ae4r at cox.net Mon Jul 18 19:25:58 2022
From: ae4r at cox.net (James Steussy)
Date: Mon, 18 Jul 2022 12:25:58 -0700
Subject: [BoatAnchors] Mil LS-3 or similar wanted
Message-ID: <D907F1B7-44BB-44DE-A821-6094719F135C@cox.net>

?Ahoy! A local friend, Scott KD4EBL, has a small, but growing collection of vintage radios. He was given a BC-342 receiver in relatively nice condition and wants to pair it with a mil speaker like the LS-3.

If you have one excess to your needs, please reply to Scott or to me directly. He would also welcome any advice about restoring his BC-342.

Thanks & 73, Mike Steussy AE4R

Sent from my iPhone

From kognw at gte.net Mon Jul 18 19:36:01 2022
From: kognw at gte.net (Keith Erickson)
Date: Mon, 18 Jul 2022 14:36:01 -0500
Subject: [BoatAnchors] Mil LS-3 or similar wanted
In-Reply-To: <D907F1B7-44BB-44DE-A821-6094719F135C@cox.net>
References: <D907F1B7-44BB-44DE-A821-6094719F135C@cox.net>
Message-ID: <E978F1F2-0A9B-4C56-AF0D-4C806AB8E5C9@gte.net>

I think I have a LS-3 speaker

Keith K0GNW

Sent from my iPad

> On Jul 18, 2022, at 2:26 PM, James Steussy via BoatAnchors <boatanchors at lists.theporch.com> wrote:

>

> ?Ahoy! A local friend, Scott KD4EBL, has a small, but growing collection of vintage radios. He was given a BC-342 receiver in relatively nice condition and wants to pair it with a mil speaker like the LS-3.

>

> If you have one excess to your needs, please reply to Scott or to me directly. He would also welcome any advice about restoring his BC-342.

>

> Thanks & 73, Mike Steussy AE4R

>

> Sent from my iPhone

>

> -----
> BoatAnchors mailing list

> BoatAnchors at lists.theporch.com

> <https://lists.theporch.com/mailman/listinfo/boatanchors>

From k1lky68 at gmail.com Tue Jul 19 04:08:20 2022
From: k1lky68 at gmail.com (Roy Morgan)
Date: Tue, 19 Jul 2022 00:08:20 -0400
Subject: [BoatAnchors] Mil LS-3 or similar wanted
In-Reply-To: <E978F1F2-0A9B-4C56-AF0D-4C806AB8E5C9@gte.net>
References: <E978F1F2-0A9B-4C56-AF0D-4C806AB8E5C9@gte.net>
Message-ID: <4BAB75F9-EA17-4CBB-BC63-A5AE01250042@gmail.com>

From long ago memory:

-The LS-3 (unmodified) has a matching transformer inside providing 8 kilohertz input impedance to the radio.

- (?) does the BC-342 have changeable power supplies - like the contemporary "tank" receivers"?

-if the BC-342 has its original front panel MS power connector, the owner may wish to invest in the the proper mating connector: is William Perfy (Memphis?) still selling such connectors?

-as I remember, the thing has some odd knobs, likely held in place by "Bristol" set screws, hex wrenches will destroy the screws.

-very likely the "Surplus Conversion Manual Vol. ?" Has schematic and "conversion" (originality destruction) instructions.

-carefully restored, the radio may work nicely for another 80 or so years. ?

Roy

Roy Morgan
K1LKY Western Mass
K1LKY68 at gmail.com

> On Jul 18, 2022, at 3:36 PM, Keith Erickson via BoatAnchors <boatanchors at lists.theporch.com> wrote:

>

> ?I think I have a LS-3 speaker

>

> Keith K0GNW

>

> Sent from my iPad

>

>> On Jul 18, 2022, at 2:26 PM, James Steussy via BoatAnchors <boatanchors at lists.theporch.com> wrote:

>>
>> ?Ahoy! A local friend, Scott KD4EBL, has a small, but growing collection of vintage radios. He was given a BC-342 receiver in relatively nice condition and wants to pair it with a mil speaker like the LS-3.
>>
>> If you have one excess to your needs, please reply to Scott or to me directly. He would also welcome any advice about restoring his BC-342.
>>
>> Thanks & 73, Mike Steussy AE4R
>>
>> Sent from my iPhone
>> -----
>> BoatAnchors mailing list
>> BoatAnchors at lists.theporch.com
>> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

From wa5cab at cs.com Tue Jul 19 07:44:54 2022
From: wa5cab at cs.com (Robert Downs)
Date: Tue, 19 Jul 2022 02:44:54 -0500
Subject: [BoatAnchors] Mil LS-3 or similar wanted
In-Reply-To: <4BAB75F9-EA17-4CBB-BC63-A5AE01250042@gmail.com>
References: <E978F1F2-0A9B-4C56-AF0D-4C806AB8E5C9@gte.net>
<4BAB75F9-EA17-4CBB-BC63-A5AE01250042@gmail.com>
Message-ID: <011201d89b43\$7049f9c0\$50dded40\$@com>

The output transformer impedance is 8000 ohms, not 8 Kiloherztz.

And yes, the receiver was also supplied with a 14V or 28V dynamotor. However, technically the receiver so modified automatically becomes a BC-312-(*) or BC-312-(N*). And the dynamotors or the rectifier supplies are not plug-in like the DM-34 and DM-36 are. Removing any of the supplies requires de-soldering several wires.

And I have LS-3's NOSB made in 1952. Only visible difference (besides the nameplate) is that they are all black semi-gloss instead of black wrinkle.

Robert Downs

-----Original Message-----

From: BoatAnchors [mailto:boatanchors-bounces@lists.theporch.com] On Behalf Of Roy Morgan via BoatAnchors
Sent: Monday, July 18, 2022 23:08
To: Ham radios with tubes
Cc: Roy Morgan

Subject: Re: [BoatAnchors] Mil LS-3 or similar wanted

>From long ago memory:

-The LS-3 (unmodified) has a matching transformer inside providing 8 kilohertz input impedance to the radio.

- (?) does the BC-342 have changeable power supplies - like the contemporary "tank" receivers"?

-if the BC-342 has its original front panel MS power connector, the owner may wish to invest in the the proper mating connector: is William Perry (Memphis? No, Louisville) still selling such connectors(I don't know but maybe)?

Roy

Roy Morgan
K1LKY Western Mass
K1LKY68 at gmail.com

Robert Downs

From dickburk at ix.netcom.com Thu Jul 21 03:19:31 2022

From: dickburk at ix.netcom.com (dickburk)

Date: Wed, 20 Jul 2022 20:19:31 -0700

Subject: [BoatAnchors] Mil LS-3 or similar wanted

In-Reply-To: <4BAB75F9-EA17-4CBB-BC63-A5AE01250042@gmail.com>

Message-ID: <mailman.36895.1658373577.1256.boatanchors@lists.theporch.com>

I happen to have an LS3, weighs a ton.? Measured impedance through internal transformer is 5000 ohms.? I did not measure the speaker directly.? My guess is that it is a Jensen but has a round magnet while most Jensens have a U? shaped pole structure.? It has PM6 something stamped on the cone,? typical Jensen type number.The case is lined with damping felt. The slotted cover probably interferes with the high frequency response but it should be ok for speech and cwMine was made by Hallicrafters for the signal corps.? There are no other markings on either the speaker or transformer.? The transformer is large enough to handle some power and probably have decent low frequency response.? Some day I will get curious enough to measure everythingImpedance was measured with a GR 1650A? Universal Bridge at 1 KHzSent from my Galaxy

----- Original message -----From: Roy Morgan via BoatAnchors <boatanchors at lists.theporch.com> Date: 7/18/22 9:08 PM (GMT-08:00) To: Ham radios with tubes <boatanchors at lists.theporch.com> Cc: Roy Morgan <k1lky68 at gmail.com> Subject: Re: [BoatAnchors] Mil LS-3 or similar wanted From long ago memory:-The LS-3 (unmodified) has a matching transformer inside providing 8 kilohertz input impedance to the radio. - (?) does the BC-342 have changeable power supplies - like the contemporary "tank" receivers"-if the BC-342 has its original front

panel MS power connector, the owner may wish to invest in the the proper mating connector: is William Perfy (Memphis?) still selling such connectors?-as I remember, the thing has some odd knobs, likely held in place by "Bristol" set screws, hex wrenches will destroy the screws. -very likely the "Surplus Conversion Manual Vol. ?" Has schematic and "conversion" (originality destruction) instructions. -carefully restored, the radio may work nicely for another 80 or so years. ?RoyRoy Morgank1LK Y Western MassK1LK Y68 at gmail.com> On Jul 18, 2022, at 3:36 PM, Keith Erickson via BoatAnchors <boatanchors at lists.theporch.com> wrote:> > ?I think I have a LS-3 speaker> > Keith K0GNW> > Sent from my iPad> >> On Jul 18, 2022, at 2:26 PM, James Steussy via BoatAnchors <boatanchors at lists.theporch.com> wrote:>> >> ?Ahoy! A local friend, Scott KD4EBL, has a small, but growing collection of vintage radios. He was given a BC-342 receiver in relatively nice condition and wants to pair it with a mil speaker like the LS-3.>> >> If you have one excess to your needs, please reply to Scott or to me directly. He would also welcome any advice about restoring his BC-342.>> >> Thanks & 73, Mike Steussy AE4R>> >> Sent from my iPhone>>

----->> BoatAnchors mailing list>>
BoatAnchors at lists.theporch.com>> <https://lists.theporch.com/mailman/listinfo/boatanchors>> > -----> BoatAnchors mailing list> BoatAnchors at lists.theporch.com> <https://lists.theporch.com/mailman/listinfo/boatanchors>-----BoatAnchors mailing listBoatAnchors at lists.theporch.com<https://lists.theporch.com/mailman/listinfo/boatanchors>

From k1lky68 at gmail.com Thu Jul 21 04:13:46 2022
From: k1lky68 at gmail.com (Roy Morgan)
Date: Thu, 21 Jul 2022 00:13:46 -0400
Subject: [BoatAnchors] Mil LS-3 or similar wanted
In-Reply-To: <011201d89b43\$7049f9c0\$50dded40\$@com>
References: <011201d89b43\$7049f9c0\$50dded40\$@com>
Message-ID: <00FEB7C6-0985-4EEB-A4EF-E76FBCF51AC7@gmail.com>

Robert,

Yes indeed, ohms not hertz(or cps).

I may still have my BC-342 in storage, I hope so. I do have the one LS-3 that's complete, and which I measured.

An interesting instrument made by General Radio is their "Z-Y Bridge type 1603A". It measures any impedance and admittance over the audio spectrum. Precision is modest to permit the wide range of values if can measure. The manual for it illustrates the impedance of a common table radio speaker showing a wide variation in impedance over even the modest frequency range of a common radio. The bridge I have is in storage, but I look forward to liberating it and being able to measure speakers, headphones and transformers. I have some vintage earphones I'd like to know about. My GR LCR bridge needs restoration.

I discovered that a pair of HS-16 headphones I have shows a pronounced peak in audible response at about 1600 cps. I also notice I could buy a new old stock pair for \$137 plus \$31 shipping. I will pass on that offer. (Reverb.Com)

Roy Morgan
K1LKY Western Mass
K1LKY68 at gmail.com

> On Jul 19, 2022, at 3:45 AM, Robert Downs <wa5cab at cs.com> wrote:
>
> ?The output transformer impedance is 8000 ohms, not 8 KiloHertz.

I wrote:

>
> -The LS-3 (unmodified) has a matching transformer inside providing 8 kilohertz input impedance to the radio.

From dickburk at ix.netcom.com Thu Jul 21 05:54:55 2022
From: dickburk at ix.netcom.com (dickburk)
Date: Wed, 20 Jul 2022 22:54:55 -0700
Subject: [BoatAnchors] Mil LS-3 or similar wanted
In-Reply-To: <00FEB7C6-0985-4EEB-A4EF-E76FBCF51AC7@gmail.com>
Message-ID: <mailman.36945.1658382898.1256.boatanchors@lists.theporch.com>

I have to re measure.? ?I think 8000 ohms is right and I miscalculated.? ?Btw I have a zy Bridge and will compare the measurementsSent from my Galaxy
----- Original message -----From: Roy Morgan via BoatAnchors <boatanchors at lists.theporch.com> Date: 7/20/22 9:13 PM (GMT-08:00) To: Robert Downs <wa5cab at cs.com> Cc: Roy Morgan <k1lky68 at gmail.com>, Ham radios with tubes <boatanchors at lists.theporch.com> Subject: Re: [BoatAnchors] Mil LS-3 or similar wanted Robert, Yes indeed, ohms not hertz(or cps). I may still have my BC-342 in storage, I hope so. I do have the one LS-3 that's complete, and which I measured. An interesting instrument made by General Radio is their "Z-Y Bridge type 1603A". It measures any impedance and admittance over the audio spectrum. Precision is modest to permit the wide range of values if can measure. The manual for it illustrates the impedance of a common table radio speaker showing a wide variation in impedance over even the modest frequency range of a common radio. The bridge I have is in storage, but I look forward to liberating it and being able to measure speakers, headphones and transformers. I have some vintage earphones I'd like to know about. My GR LCR bridge needs restoration. I discovered that a pair of HS-16 headphones I have shows a pronounced peak in audible response at about 1600 cps. I also notice I could buy a new old stock pair for \$137 plus \$31 shipping. I will pass on that offer. (Reverb.Com)Roy MorganK1LKY Western MassK1LKY68 at gmail.com>
On Jul 19, 2022, at 3:45 AM, Robert Downs <wa5cab at cs.com> wrote:> > ?The output transformer impedance is 8000 ohms, not 8 KiloHertz.? I wrote:> > -The LS-3 (unmodified) has a matching transformer inside providing 8 kilohertz input impedance to the radio. _____BoatAnchors

mailing listBoatAnchors at lists.theporch.com<https://lists.theporch.com/mailman/listinfo/boatanchors>

From dickburk at ix.netcom.com Thu Jul 21 08:39:04 2022
From: dickburk at ix.netcom.com (Richard Knoppow)
Date: Thu, 21 Jul 2022 01:39:04 -0700
Subject: [BoatAnchors] Mil LS-3 or similar wanted
In-Reply-To: <00FEB7C6-0985-4EEB-A4EF-E76FBCF51AC7@gmail.com>
References: <011201d89b43\$7049f9c0\$50dded40\$@com>
<00FEB7C6-0985-4EEB-A4EF-E76FBCF51AC7@gmail.com>
Message-ID: <718200b6-57f3-9a99-0d6e-372ed4e9ef7e@ix.netcom.com>

Answered from my cell phone, hard to type on that thing. I made an error in calculating, the correct impedance is 8000 ohms.

The Z-Y bridge is interesting because it will work in active circuits and measure negative impedance, as in feedback circuits. There are more sophisticated instruments but the Z-Y bridge does so many things. The main problem is in wide band measurements where modern swept instruments are much more convenient.

On 7/20/2022 9:13 PM, Roy Morgan via BoatAnchors wrote:

> Robert,

>

> Yes indeed, ohms not hertz(or cps).

>

> I may still have my BC-342 in storage, I hope so. I do have the one LS-3 that's complete, and which I measured.

>

> An interesting instrument made by General Radio is their "Z-Y Bridge type 1603A". It measures any impedance and admittance over the audio spectrum. Precision is modest to permit the wide range of values it can measure. The manual for it illustrates the impedance of a common table radio speaker showing a wide variation in impedance over even the modest frequency range of a common radio. The bridge I have is in storage, but I look forward to liberating it and being able to measure speakers, headphones and transformers. I have some vintage earphones I'd like to know about. My GR LCR bridge needs restoration.

>

> I discovered that a pair of HS-16 headphones I have shows a pronounced peak in audible response at about 1600 cps. I also notice I could buy a new old stock pair for \$137 plus \$31 shipping. I will pass on that offer. (Reverb.Com)

>

> Roy Morgan

> K1LKY Western Mass

> K1LKY68 at gmail.com

>

>> On Jul 19, 2022, at 3:45 AM, Robert Downs <wa5cab at cs.com> wrote:

>>

>> ?The output transformer impedance is 8000 ohms, not 8 Kilohertz.

>
> I wrote:
>>
>> -The LS-3 (unmodified) has a matching transformer inside providing 8 kilohertz
input impedance to the radio.
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

--
Richard Knoppow
1oldlens1 at ix.netcom.com
WB6KBL

From arc5 at ix.netcom.com Wed Jul 27 11:56:31 2022
From: arc5 at ix.netcom.com (David Stinson)
Date: Wed, 27 Jul 2022 06:56:31 -0500
Subject: [BoatAnchors] Parallel Zeners
Message-ID: <222d7ea0-3ee4-9908-e6f2-a67cdbd64cb3@ix.netcom.com>

If one carefully matches forward conduction impedance,
can one parallel zeners to achieve higher dissipation?

--
This email has been checked for viruses by Avast antivirus software.
<https://www.avast.com/antivirus>

From spr at earthlink.net Wed Jul 27 16:20:46 2022
From: spr at earthlink.net (Scott Robinson)
Date: Wed, 27 Jul 2022 09:20:46 -0700
Subject: [BoatAnchors] Parallel Zeners
In-Reply-To: <222d7ea0-3ee4-9908-e6f2-a67cdbd64cb3@ix.netcom.com>
References: <222d7ea0-3ee4-9908-e6f2-a67cdbd64cb3@ix.netcom.com>
Message-ID: <011f5951-4f06-78ce-6ef4-ad1d97098018@earthlink.net>

Hi David,

Getting the voltage and impedance vs. current curves matched will be a
chore but in principle do-able.

I prefer to use a small Zener connected from the base of a power
transistor to the collector. Emitter to ground, collector and Zener to
the regulated voltage. Add a 1K resistor from base to ground to ensure
the transistor turns off at lower voltages, and of course heat sink as
required.

The Zener only carries regulating current divided by the Beta of the transistor, probably around 20 at high currents.

FWIW,

Scott Robinson

On 7/27/22 4:56 AM, David Stinson via BoatAnchors wrote:

> If one carefully matches forward conduction impedance,
> can one parallel zeners to achieve higher dissipation?
>

From tarheel6 at msn.com Wed Jul 27 16:53:55 2022

From: tarheel6 at msn.com (Tom Bridgers)

Date: Wed, 27 Jul 2022 12:53:55 -0400

Subject: [BoatAnchors] Parallel zeners for higher dissipation

Message-ID:

<DM4PR11MB6095437326A15F2110174CA590979@DM4PR11MB6095.namprd11.prod.outlook.com>

Dave,

Instead of a second zener, use one Zener to drive an NPN power transistor suitable to the voltage and power needed. You'll lose about 2/3 of a volt with the circuit. So if that's critical this circuit might not work for you. I know how to draw back is this Sarah circuit does not have auto-correct regulation.

So another option is to use a standard voltage regulator circuit, which requires you to add one more transistor, but provides adjustment of the output voltage to a voltage lower than the input voltage.. And will provide better voltage regulation.

A few years back I built these circuits and found them to be quite satisfactory. However they do take up a little bit more space than probably you'd like.

This is a very interesting issue to me, and I'll be looking forward to hearing what other people say, and what you ultimately do to get the results you need.

Vy 73's

Tom KE4RHH

Sent from my iPhone

> On Jul 27, 2022, at 8:00 AM, boatanchors-request at lists.theporch.com wrote:

>

> ?Send BoatAnchors mailing list submissions to

> boatanchors at lists.theporch.com

>

> To subscribe or unsubscribe via the World Wide Web, visit

> <https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=05%7C01%7C%7C2d120d2cf2a646331f0908da6fc790b7%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C637945200158040686%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Iik1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=0UaRbBqh2jrfEvY0Irw2W0ikxYNGMp7TyscIybewe1s%3D&reserved=0>
> or, via email, send a message with subject or body 'help' to
> boatanchors-request at lists.theporch.com
>
> You can reach the person managing the list at
> boatanchors-owner at lists.theporch.com
>
> When replying, please edit your Subject line so it is more specific
> than "Re: Contents of BoatAnchors digest..."
>
>
> Today's Topics:
>
> 1. Parallel Zeners (David Stinson)
>
>
> -----
>
> Message: 1
> Date: Wed, 27 Jul 2022 06:56:31 -0500
> From: David Stinson <arc5 at ix.netcom.com>
> To: "Boatanchors at mailman" <boatanchors at mailman.qth.net>,
> "milsurplus at mailman" <milsurplus at mailman.qth.net>
> Subject: [BoatAnchors] Parallel Zeners
> Message-ID: <222d7ea0-3ee4-9908-e6f2-a67cdbd64cb3 at ix.netcom.com>
> Content-Type: text/plain; charset=UTF-8; format=flowed
>
> If one carefully matches forward conduction impedance,
> can one parallel zeners to achieve higher dissipation?
>
> --
> This email has been checked for viruses by Avast antivirus software.
> <https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.avast.com%2Fantivirus&data=05%7C01%7C%7C2d120d2cf2a646331f0908da6fc790b7%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C637945200158040686%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Iik1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=zANhDWrlk6dKGuqjmm0aUW092QT76cF3pUonMK%2F7NaI%3D&reserved=0>
>
>
>
> -----
>

> Subject: Digest Footer

>

>

> -----
> BoatAnchors mailing list

> BoatAnchors at lists.theporch.com

> https://nam12.safelinks.protection.outlook.com/?

url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=05%7C01%7C%7C2d120d2cf2a646331f0908da6fc790b7%7C84df9e7fe9f640afb435aaaaaaaaaaaa%7C1%7C0%7C637945200158040686%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Iik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=0UaRbBqh2jrfEvY0Irw2W0ikxYNGMp7TyscIybewe1s%3D&reserved=0

>

>

> -----

>

> End of BoatAnchors Digest, Vol 513, Issue 1

> *****

From gumbear at pacbell.net Wed Jul 27 16:57:23 2022

From: gumbear at pacbell.net (Arden Allen)

Date: Wed, 27 Jul 2022 09:57:23 -0700

Subject: [BoatAnchors] Parallel Zeners

In-Reply-To: <011f5951-4f06-78ce-6ef4-ad1d97098018@earthlink.net>

References: <222d7ea0-3ee4-9908-e6f2-a67cdbd64cb3@ix.netcom.com>

<011f5951-4f06-78ce-6ef4-ad1d97098018@earthlink.net>

Message-ID: <FA5BCAC58CEA4670AE0C6E29FAE3B09D@Polywell>

Back in the good ol' days you could get bolt on higher power zeners. Might find something on eBay or wherever....

Arden

-----Original Message-----

From: Scott Robinson via BoatAnchors

Sent: Wednesday, July 27, 2022 9:20 AM

To: David Stinson via BoatAnchors

Cc: Scott Robinson

Subject: Re: [BoatAnchors] Parallel Zeners

Hi David,

Getting the voltage and impedance vs. current curves matched will be a chore but in principle do-able.

I prefer to use a small Zener connected from the base of a power transistor to the collector. Emitter to ground, collector and Zener to the regulated voltage. Add a 1K resistor from base to ground to ensure the transistor turns off at lower voltages, and of course heat sink as

required.

The Zener only carries regulating current divided by the Beta of the transistor, probably around 20 at high currents.

FWIW,

Scott Robinson

.....

From tarheel6 at msn.com Wed Jul 27 17:03:30 2022

From: tarheel6 at msn.com (Tom Bridgers)

Date: Wed, 27 Jul 2022 13:03:30 -0400

Subject: [BoatAnchors] Parallel zeners for higher dissipation

In-Reply-To:

<DM4PR11MB6095437326A15F2110174CA590979@DM4PR11MB6095.namprd11.prod.outlook.com>

References:

<DM4PR11MB6095437326A15F2110174CA590979@DM4PR11MB6095.namprd11.prod.outlook.com>

Message-ID:

<DM4PR11MB6095DBE96D4EE9384170746B90979@DM4PR11MB6095.namprd11.prod.outlook.com>

Siri misunderstood me again. Sorry.

The last sentence in the first paragraph should read as follows:

? A drawback to this circuit is it does not have auto-correct regulation.?

Sent from my iPhone

From knjhanlon at msn.com Wed Jul 27 18:10:34 2022

From: knjhanlon at msn.com (JAMES HANLON)

Date: Wed, 27 Jul 2022 18:10:34 +0000

Subject: [BoatAnchors] Re Parallel Zeners

Message-ID:

<SJ0PR17MB5828C759621A93DC333C1880A0979@SJ0PR17MB5828.namprd17.prod.outlook.com>

David,

You asked about paralleling closely-matched Zener diodes. I suggest giving it a try and measuring the current in each diode to see if one is hogging. You could always put a little resistance in series with the one drawing more current to even things out if necessary.

Jim, W8KGI

From arc5 at ix.netcom.com Sat Jul 30 21:33:31 2022

From: arc5 at ix.netcom.com (David Stinson)

Date: Sat, 30 Jul 2022 16:33:31 -0500
Subject: [BoatAnchors] Parallel Zeners
In-Reply-To: <222d7ea0-3ee4-9908-e6f2-a67cdbc64cb3@ix.netcom.com>
References: <222d7ea0-3ee4-9908-e6f2-a67cdbc64cb3@ix.netcom.com>
Message-ID: <40317144-b4df-8106-5a4f-c6bb400d908a@ix.netcom.com>

Thanks to everyone who offered viewpoints and
info on this. Our community is excellent.
Dave S.

--

This email has been checked for viruses by Avast antivirus software.
<https://www.avast.com/antivirus>